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2/26/2008

### 1. [The string B-tree: a new data structure for string search in external memory and its applications](#)

Paolo Ferragina, Roberto Grossi

March 1999 **Journal of the ACM (JACM)**, Volume 46 Issue 2

Publisher: ACM

Full text available: pdf(363.37 KB)

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We introduce a new text-indexing data structure, the String B-Tree, that can be seen as a link between some traditional external-memory and string-matching data structures. In a short phrase, it is a combination of B-trees and Patricia ...

**Keywords:** B-tree, Patricia trie, external-memory data structure, prefix and range search, string searching and sorting, suffix array, suffix tree, text index

### 2. [A certifying algorithm for the consecutive-ones property](#)

Ross M. McConnell

January 2004 **SODA '04: Proceedings of the fifteenth annual ACM-SIAM symposium on Discrete algorithms**

Publisher: Society for Industrial and Applied Mathematics

Full text available: pdf(231.87 KB)

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We give a forbidden substructure characterization of set families that have the consecutive-ones property, and a linear time algorithm to find the forbidden substructure if a set family does not have the property. The forbidden substructure has size ...

### 3. [Locking-aware structural join operators for XML query processing](#)

Christian Mathis, Theo Härder, Michael Haustein

June 2006 **SIGMOD '06: Proceedings of the 2006 ACM SIGMOD international conference on Management of data**

Publisher: ACM

Full text available: pdf(519.20 KB)

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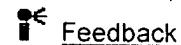


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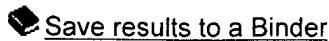
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Monica Donno, Enrico Macii, Luca Mazzoni

 April 2004 **ISPD '04: Proceedings of the 2004 international symposium on Physical design**

Publisher: ACM

Full text available: pdf(299.89 KB)

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Modern processors and SoCs require the adoption of power-oriented design styles, due to the implications that power consumption may have on reliability, cost and manufacturability of integrated circuits featuring nanometric technologies. And the power ...

**Keywords:** clock tree synthesis and routing, digital design, low-power design, physical design and optimization

**2** [The string B-tree: a new data structure for string search in external memory and its applications](#)

Paolo Ferragina, Roberto Grossi

 March 1999 **Journal of the ACM (JACM)**, Volume 46 Issue 2

Publisher: ACM

Full text available: pdf(363.37 KB)

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We introduce a new text-indexing data structure, the String B-Tree, that can be seen as a link between some traditional external-memory and string-matching data structures. In a short phrase, it is a combination of B-trees and Patricia ...

**Keywords:** B-tree, Patricia trie, external-memory data structure, prefix and range search, string searching and sorting, suffix array, suffix tree, text index

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Joseph Cheriyan, Mohammad R. Salavatipour

 November 2007 **ACM Transactions on Algorithms (TALG)**, Volume 3 Issue 4

Publisher: ACM

Full text available: pdf(108.50 KB) Additional Information: [full citation](#), [abstract](#),

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EJ Otoo - Proceedings of the fifth ACM SIGACT-SIGMOD symposium on ..., 1985 - portal.acm.org  
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MA Bender, Z Duan, J Iacono, J Wu - Proceedings of the thirteenth annual ACM-SIAM symposium on ..., 2002 - portal.acm.org  
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H Li, ML Lee, W Hsu, C Chen - ACM SIGMOD Record, 2004 - portal.acm.org  
 ... Let  $K_i$  and  $K_j$  be two **consecutive keys** (or intervals) in an XB-tree index  
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 Saleh, I.; Papy, F.; Bouhai, N.;  
Computer Systems and Applications, ACS/IEEE International Conference on, 2001  
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 Chih-Ping Chu; Carver, D.L.;  
Parallel Processing Symposium, 1991. Proceedings., Fifth International  
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S1	1773845	computer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/26 10:46
S3	2	"6889226".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/26 10:56
S4	4	"605448".ap.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/26 11:14
S6	0	((excis\$3 or extract\$3 or remov\$3 or (tak\$3 adj out) or cull\$3) with (b?tree\$1 or btree\$1 or tree\$1)) and @ad<"2031001"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/26 11:20
S8	11	( ((excis\$3 or extract\$3 or remov\$3 or (tak\$3 adj out) or cull\$3) near3 (b?tree\$1 or btree\$1 or tree\$1)) same renam\$3 ) and @ad<"20031001"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/26 11:25
S9	2656	((excis\$3 or extract\$3 or (tak\$3 adj out) ) near3 (b?tree\$1 or btree\$1 or tree\$1)) and @ad<"20031001"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/26 11:29
S11	157	S9 and "707"/.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/26 11:50

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S12	1	"5619693".pn. and (dynamically)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/26 11:51
S5	0	((excis\$3 or extract\$3 or remov\$3 or (tak\$3 adj out) or cull\$3) near3 (b?tree\$1 or btree\$1 or tree\$1)) and @ad<"2031001"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/26 13:11
S15	0	((split\$4 ) with tree\$1)) and @ad<"2031001"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/26 13:12
S14	0	((split\$4 ) with tree\$1) same merg\$3) and @ad<"2031001"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/26 13:12
S13	0	((split\$4 and merg\$3) with tree\$1) and @ad<"2031001"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/26 13:12
S17	71	S16 and "707"/.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/26 14:32
S18	0	((renam\$3 near3 ((consecutive or adjacent or neighboring or subsequent) near3 (key\$1 or node\$1 or leaf\$1 or leaves or vertices)))) with tree\$1) and @ad<"20031001"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/26 14:38

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S20	1	"20030018646" and renam\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/26 14:42
S19	18	((renam\$3 near3 (key\$1 or node\$1 or vertices)) with tree\$1) and @ad<"20031001"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/26 14:53
S21	11	((renam\$3 near3 node\$1) near5 tree\$1) and @ad<"20031001"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/26 14:55
S24	2	((remov\$3 near3 node\$1) near5 tree\$1)) same renam\$3 and @ad<"20031001"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/26 14:56
S23	0	((remov\$3 near3 node\$1) near5 tree\$1)) with renam\$3 and @ad<"20031001"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/26 14:56
S22	429	((remov\$3 near3 node\$1) near5 tree\$1) and @ad<"20031001"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/26 14:56
S25	0	((excis\$3 near3 node\$1) near5 tree\$1)) same renam\$3 and @ad<"20031001"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/26 14:57



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S26	2	((extract\$3 near3 node\$1) near5 tree\$1)) same renam\$3 and @ad<"20031001"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/26 15:24
S29	1713	((extract\$3 or excis\$3) near3 (node\$1 or key\$1 or leaves)) with stor\$3) and @ad<"20031001"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/26 15:28
S28	9947	((extract\$3 or excis\$3) near3 (node\$1 or key\$1 or leaves)) and stor\$3) and @ad<"20031001"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/26 15:28
S30	30	((extract\$3 or excis\$3) near5 ((node\$1 or key\$1 or leaves))) near5 tree\$1 with stor\$3) and @ad<"20031001"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/26 15:29
S31	2	"20030018646" and (split\$4 or merg\$3 or extract\$3 or nam\$3 or renam\$3 or node\$1 or stor\$3 )	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/26 16:02
S27	2	"20030204513" and (split\$4 or merg\$3 or extract\$3 or nam\$3 or renam\$3 or node\$1 or stor\$3 )	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/26 16:02
S32	9313	results and renam\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/27 09:52

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S34	50	S33 and (renam\$3 near\$3 nodes)	US-PGPUB; USPAT	OR	OFF	2006/09/27 09:54
S36	23	S35 and "707"/.cccls.	US-PGPUB; USPAT	OR	OFF	2006/09/27 09:55
S35	39	S33 and ((renam\$3 near\$3 nodes) with tree\$1)	US-PGPUB; USPAT	OR	OFF	2006/09/27 10:02
S38	1	"5832487".pn. and (renam\$3 with node\$1)	US-PGPUB; USPAT	OR	OFF	2006/09/27 10:03
S37	1	"5832487".pn. and (renam\$3 near4 node\$1)	US-PGPUB; USPAT	OR	OFF	2006/09/27 10:03
S39	1	"5832487".pn. and (renam\$3 )	US-PGPUB; USPAT	OR	OFF	2006/09/27 10:06
S40	1	"5752243".pn. and (split\$4 or sub\$4 or merg\$3 or renam\$3)	US-PGPUB; USPAT	OR	OFF	2006/09/27 10:18
S43	0	"5752243".pn. and namespace	US-PGPUB; USPAT	OR	OFF	2006/09/27 11:08
S42	1	"5752243".pn. and (key near3 value\$1) with split\$4	US-PGPUB; USPAT	OR	OFF	2006/09/27 11:08

## EAST Search History

S45	1	S44 and namespace	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/27 11:09
S44	140	((split\$4 and merg\$3) with tree\$1) and @ad<"20031001"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/27 11:09
S47	382	S46 and "707"/.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/27 11:10
S46	6565	((excis\$3 or extract\$3 or remov\$3 or (tak\$3 adj out) or cull\$3) near3 (b?tree\$1 or btree\$1 or tree\$1)) and @ad<"20031001"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/27 11:10
S10	382	S7 and "707"/.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/27 11:10
S49	1	"5689706".pn. and directory	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/27 11:15
S48	14	S47 and namespace	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/27 12:03

## EAST Search History

S51	1	"20050234951" and balancing	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/27 12:21
S50	1	"5752243".pn. and directory	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/27 12:21
S54	1331	(balanc\$3 near3 (tree\$1 or btree\$1 or b?tree\$1)) and @ad<"20030801"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/27 12:23
S53	1521	(balanc\$3 near5 (tree\$1 or btree\$1 or b?tree\$1)) and @ad<"20030801"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/27 12:23
S56	55	S55 and (split\$4 and merg\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/27 12:24
S55	349	S54 and "707"/.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/27 12:24
S58	1	"20030204513" .pn. and prefix	US-PGPUB; USPAT	OR	OFF	2006/09/27 12:38
S57	0	"5752243".pn. and prefix	US-PGPUB; USPAT	OR	OFF	2006/09/27 12:38
S41	1	"5752243".pn. and nam\$3	US-PGPUB; USPAT	OR	OFF	2006/09/27 12:38

## EAST Search History

S52	1	"20050234951" and balanc\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/27 12:47
S62	1	S61 and "707"/.cccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/27 12:49
S61	59	(strict near3 insert\$3) and @ad<"20030801"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/27 12:49
S60	0	((strict near3 insert\$3) near5 (tree\$1 or btree\$1 or b?tree\$1)) and @ad<"20030801"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/27 12:49
S59	1	"20050234951" and strict	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/27 12:50
S64	65	S63 and "707"/.cccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/27 12:51
S63	521	((insert\$3 with tree\$1) with between) and @ad<"20030801"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/27 12:51

## EAST Search History

S16	140	((split\$4 and merg\$3) with tree\$1) and @ad<"20031001"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/27 13:38
S65	0	S44 and (renam\$3 near3 director\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/27 13:39
S67	55	S66 and (split\$4 and merg\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/27 13:40
S68	6635	((excis\$3 or extract\$3 or remov\$3 or (tak\$3 adj out) or cull\$3) near3 (b?tree\$1 or btree\$1 or tree\$1)) and @ad<"20031001"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/20 11:20
S7	6565	((excis\$3 or extract\$3 or remov\$3 or (tak\$3 adj out) or cull\$3) near3 (b?tree\$1 or btree\$1 or tree\$1)) and @ad<"20031001"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/20 11:20
S70	31	S69 and (renam\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/20 11:21
S69	395	S68 and "707"/.cccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/20 11:21

## EAST Search History

S2	6	"823870".ap.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/08/09 12:46
S72	6	"823870".ap.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/08/09 12:47
S71	1	"20030204513" and balanc\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/08/09 12:47
S74	1	"5752243".pn. and balanc\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/08/09 12:56
S75	2	"5689706".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/08/09 14:01
S73	1	"20050234951" and balanc\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/08/09 14:01
S76	1	"5689706".pn. and ((file near2 system\$1) or namespace\$1 or director\$3 or tree\$1 or b-tree\$1 or b?tree\$1 or chang\$3 or key\$1 or node\$1 or nam\$3 or renam\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/08/09 14:02

## EAST Search History

S66	268	(renam\$3 near3 directory) and @ad<"20030801"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/08/09 14:12
S78	284	S77 and ( (tree\$1 or b-tree\$1 or b?tree\$1 or namespace or (file near2 system\$1) or key\$1 or chang\$3 or renam\$3 or re-nam\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/08/09 14:17
S79	13	S77 and ( (tree\$1 or b-tree\$1 or b?tree\$1) and namespace and (file near2 system\$1) and key\$1 and chang\$3 and( renam\$3 or re-nam\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/08/09 14:41
S80	1	"6389427".pn. and (director\$3 near4 chang\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/08/09 14:43
S82	1	"5566337".pn. and (director\$3 near4 chang\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/08/09 14:44
S81	1	"6192365".pn. and (director\$3 near4 chang\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/08/09 14:44
S83	343	((renam\$3 re-nam\$3 ) near3 director\$3) and @ad<"20030801"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/08/09 14:45



## EAST Search History

S77	284	(renam\$3 near3 directory) and @ad<"20030801"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/08/09 14:45
S84	164	S83 and (tree\$1 or btree\$1 or b?tree\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/08/09 14:46
S87	1	"20030028517" and ((renam\$3 or re-nam\$3) same director\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/08/09 15:01
S85	105	S83 and ((tree\$1 or btree\$1 or b?tree\$1) same director\$3 )	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/08/09 15:04
S86	92	S83 and ((tree\$1 or btree\$1 or b?tree\$1) with director\$3 )	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/08/09 15:05
S88	92	S85 and ((tree\$1 or btree\$1 or b?tree\$1) with director\$3 )	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/08/09 15:29
S90	0	"20020152226" and (btree\$1 or b?tree\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/08/09 15:35

## EAST Search History

S89	3	"20020152226" and (renam\$3 or director\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/08/09 15:35
S91	2	"20050234951" and (readable or medium or media or signal\$1 or wave\$1 or communication\$1 or wireless or link\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/20 09:42
S92	1985	((excis\$3 or extract\$3 or remov\$3 or (tak\$3 adj out) or cull\$3) near3 (b?tree\$1 or btree\$1 or tree\$1)) and @rlad<"20031001"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/20 13:45
S96	9	S93 and 707/101.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/20 13:46
S95	14	S92 and 707/101.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/20 13:46
S94	3651	707/101.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/20 13:46
S93	2814	((excis\$3 or extract\$3 or remov\$3 or (tak\$3 adj out) or cull\$3) near3 (b?tree\$1 or btree\$1 or tree\$1)) and @prad<"20031001"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/20 13:46

## EAST Search History

S10 0	1524	((excis\$3 or extract\$3 or (tak\$3 adj out) ) near3 (b?tree\$1 or btree\$1 or tree\$1)) and @prad<"20031001"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/20 13:47
S99	872	((excis\$3 or extract\$3 or (tak\$3 adj out) ) near3 (b?tree\$1 or btree\$1 or tree\$1)) and @rlad<"20031001"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/20 13:47
S98	0	( ((excis\$3 or extract\$3 or remov\$3 or (tak\$3 adj out) or cull\$3) near3 (b?tree\$1 or btree\$1 or tree\$1)) same renam\$3 ) and @prad<"20031001"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/20 13:47
S97	6	( ((excis\$3 or extract\$3 or remov\$3 or (tak\$3 adj out) or cull\$3) near3 (b?tree\$1 or btree\$1 or tree\$1)) same renam\$3 ) and @rlad<"20031001"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/20 13:47
S10 7	5	((renam\$3 near3 node\$1) near5 tree\$1) and @rlad<"20031001"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/20 13:48
S10 6	5	((renam\$3 near3 (key\$1 or node\$1 or vertices)) with tree\$1) and @prad<"20031001"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/20 13:48
S10 5	6	((renam\$3 near3 (key\$1 or node\$1 or vertices)) with tree\$1) and @rlad<"20031001"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/20 13:48

## EAST Search History

S10 4	3	S102 and 707/101.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/20 13:48
S10 3	3	S101 and 707/101.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/20 13:48
S10 2	34	((split\$4 and merg\$3) with tree\$1) and @prad<"20031001"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/20 13:48
S10 1	71	((split\$4 and merg\$3) with tree\$1) and @rlad<"20031001"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/20 13:48
S11 3	5247	((extract\$3 or excis\$3) near3 (node\$1 or key\$1 or leaves)) and stor\$3) and @prad<"20031001"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/20 13:49
S11 2	5127	((extract\$3 or excis\$3) near3 (node\$1 or key\$1 or leaves)) and stor\$3) and @rlad<"20031001"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/20 13:49
S11 1	4	S109 and 707/101.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/20 13:49

## EAST Search History

S11 0	79	((remov\$3 near3 node\$1) near5 tree\$1) and @prad<"20031001"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/20 13:49
S10 9	206	((remov\$3 near3 node\$1) near5 tree\$1) and @rlad<"20031001"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/20 13:49
S10 8	1	((renam\$3 near3 node\$1) near5 tree\$1) and @prad<"20031001"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/20 13:49
S11 8	31	((extract\$3 or excis\$3) near5 ((node\$1 or key\$1 or leaves))) near5 tree\$1 with stor\$3) and @prad<"20031001"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/20 13:50
S11 7	17	((extract\$3 or excis\$3) near5 ((node\$1 or key\$1 or leaves))) near5 tree\$1 with stor\$3) and @rlad<"20031001"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/20 13:50
S11 6	7	S115 and 707/101.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/20 13:50
S11 5	1045	((extract\$3 or excis\$3) near3 (node\$1 or key\$1 or leaves)) with stor\$3) and @prad<"20031001"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/20 13:50

## EAST Search History

S11 4	505	((extract\$3 or excis\$3) near3 (node\$1 or key\$1 or leaves)) with stor\$3) and @rlad<"20031001"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/20 13:50
S12 2	389	(balanc\$3 near5 (tree\$1 or btree\$1 or b?tree\$1)) and @prad<"20030801"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/20 13:51
S12 1	655	(balanc\$3 near5 (tree\$1 or btree\$1 or b?tree\$1)) and @rlad<"20030801"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/20 13:51
S12 0	34	((split\$4 and merg\$3) with tree\$1) and @prad<"20031001"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/20 13:51
S11 9	71	((split\$4 and merg\$3) with tree\$1) and @rlad<"20031001"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/20 13:51
S12 8	11	S126 and 707/101.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/20 13:52
S12 7	26	S125 and 707/101.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/20 13:52

## EAST Search History

S12 6	334	(balanc\$3 near3 (tree\$1 or btree\$1 or b?tree\$1)) and @prad<"20030801"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/20 13:52
S12 5	573	(balanc\$3 near3 (tree\$1 or btree\$1 or b?tree\$1)) and @rlad<"20030801"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/20 13:52
S12 4	12	S122 and 707/101.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/20 13:52
S12 3	26	S121 and 707/101.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/20 13:52
S13 2	187	((insert\$3 with tree\$1) with between) and @prad<"20030801"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/20 13:53
S13 1	147	((insert\$3 with tree\$1) with between) and @rlad<"20030801"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/20 13:53
S13 0	32	(strict near3 insert\$3) and @prad<"20030801"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/20 13:53

## EAST Search History

S12 9	24	(strict near3 insert\$3) and @rlad<"20030801"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/20 13:53
S13 7	1985	((excis\$3 or extract\$3 or remov\$3 or (tak\$3 adj out) or cull\$3) near3 (b?tree\$1 or btree\$1 or tree\$1)) and @rlad<"20031001"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/20 13:54
S13 6	54	(renam\$3 near3 directory) and @prad<"20030801"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/20 13:54
S13 5	139	(renam\$3 near3 directory) and @rlad<"20030801"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/20 13:54
S13 4	3	S132 and 707/101.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/20 13:54
S13 3	5	S131 and 707/101.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/20 13:54
S14 2	54	(renam\$3 near3 directory) and @prad<"20030801"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/20 13:55



## EAST Search History

S14 1	139	(renam\$3 near3 directory) and @rlad<"20030801"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/20 13:55
S14 0	9	S138 and 707/101.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/20 13:55
S13 9	14	S137 and 707/101.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/20 13:55
S13 8	2814	((excis\$3 or extract\$3 or remov\$3 or (tak\$3 adj out) or cull\$3) near3 (b?tree\$1 or btree\$1 or tree\$1)) and @prad<"20031001"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/20 13:55
S14 6	163	((renam\$3 re-nam\$3 ) near3 director\$3) and @rlad<"20030801"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/20 13:56
S14 5	9	S144 and 707/101.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/20 13:56
S14 4	287	S143 and ( (tree\$1 or b-tree\$1 or b?tree\$1 or namespace or (file near2 system\$1) or key\$1 or chang\$3 or renam\$3 or re-nam\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/20 13:56

## EAST Search History

S14 3	287	(renam\$3 near3 directory) and @ad<"20030801"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/20 13:56
S14 7	2	"20050234951" and (readable or media or medium or wireless or communications or optical or signal\$1 or wave\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/26 11:40